



# THE BEAN BAG

A newsletter to promote communication among research scientists  
concerned with the systematics of the Leguminosae/Fabaceae

Number 42

November 1995

## From the Editors

Joseph H. Kirkbride, Jr., John H. Wiersema, and Roger M. Polhill

*The Bean Bag* (BB) is designed to promote communication among research scientists concerned with legume systematics. To achieve this goal the BB is issued in May and November of each year and features six columns: From the Editors, News (meetings, major events, announcements, etc.), Latin American Legume Report, Nodulation and Nitrogen Fixation (new nodulation records), Gleanings, and Recent Legume Literature. Data in the Gleanings column are derived from questionnaire sheets which Readers complete and return. If you have news about legume systematics, send it to us for this column. The Recent Legume Literature column contains published research papers of specific interest to BB Readers. Recent is defined as one year old. We rarely will publish a citation that is more than one year old. Specific interest to BB Readers is defined as research papers of interest to a worldwide group of legume systematic botanists. We encourage BB Readers to send us notices, observations, etc.

Diacritical marks can now be placed in the BB. If such marks should be placed in your name, address, publications, etc., please let us know. We are especially interested in correcting our Directory.

*The Bean Bag* and the Directory can now be delivered to Readers via e-mail. If you wish to have your copies e-mailed to you, please send the following standard e-mail message

To: beanbag-request@rbgkew.org.uk — **Subscribe BeanBag** <my e-mail address>.

Electronic copies of the current and past BBs and the Directories (1987 through the present) can be obtained from the World Wide Web server of the Royal Botanic Gardens, Kew, United Kingdom or through the Internet at MUSE.BIO.CORNELL.EDU. Beginning in June, 1995, the BB will be available on the World Wide Web at <http://WWW.rbgkew.org.uk:80/herbarium/legumes/legumes/beanbag.html>. MUSE.BIO.CORNELL.EDU is a free service on the Internet maintained by the staff of the MUSE Project at Cornell University, Ithaca, New York, USA. Connect to MUSE.BIO.CORNELL.EDU via FTP using the name ANONYMOUS and your e-mail address as the password, and copies of the BB and the Directory are in the subdirectory /PUB/NEWSLETTERS/BEANBAG.

## Bean Bag addresses:

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## Reunión Satélite de Especialistas en Fabáceas VI Congreso Latinoamericano de Botánica

2 al 8 de octubre de 1994  
Mar del Plata, Argentina

Renée H. Fortunato

Coordinador: Ing. Agr. Renée H. Fortunato  
Secretaria Ejecutiva: Dra. Silvia Miotto

Participantes: 62 de 14 países

En el VI Congreso Latinoamericano de Botánica (Mar del Plata, Argentina) se efectuó la III Reunión Satélite de Especialistas en Fabáceas continuando con la modalidad, iniciada en 1986 durante el IV Congreso Latinoamericano de Botánica (Medellín, Colombia).

Temario de la Reunión:

1. Con el objetivo de exponer el estado actual de los estudios que se realizan en la familia en América Latina se contó con la exposición de representantes de:

Uruguay: Ing. Agr. Primavera Izaquirre

México: Dr. Alfonso Delgado-Salinas

Costa Rica: Ing. Agr. Nelson Zamora

Brasil: Dra. Silvia Miotto

Argentina: Ing. Agr. Ramón Palacios (Distribución de un Directorio y área de especialización)

Ecuador: Dr. David Neil (Distribuido por escrito a los participantes)

2. *The Bean Bag*: Presentación del Dr. Joseph H. Kirkbride, Jr. de la situación actual del *Bean Bag* y sus perspectivas futuras.

3. *Boletín de Mimosoideas*: Se expuso la preocupación de los especialistas latinoamericanos por la falta de información sobre el estado actual de esta revista cuyo último número fuera publicado en 1992.

4. Se efectuó la propuesta de la creación de un Grupo de Especialistas Latinoamericanos en Fabáceas, siendo uno de sus objetivos efectuar Simposios periódicos en diferentes países de la región.

Conclusiones:

- *The Bean Bag*, a través de un espacio para especialistas de América Latina publicará la información referente a los estudios que se realicen en las diferentes áreas de la familia.

- Se elaborará un Directorio actualizado de investigadores latinoamericanos, organizado por los representantes de cada país. Toda la información para su publicación deberá ser enviada a la Ing. Agr. Renée H. Fortunato, Instituto de Recursos Biológicos, INTA, Castelar 1712, Buenos Aires, Argentina, Tel: 54-1-621-0840/1819, FAX: 54-1-481-2360, E-mail: [renee@rbinta.edu.ar](mailto:renee@rbinta.edu.ar).

- Se aprobó realizar la IV Reunión Satélite y el II Simposio de Fabáceas durante el VII Congreso Latinoamericano de Botánica en México 1998.

## Advances in Legume Systematics

J. Michael Lock

Three of the four volumes arising from the 1992 Legume Conference at Kew have now been published. They are:

### 5: The Nitrogen Factor

Edited by J.I. Sprent and D. McKey

The papers address various aspects of the nitrogen economy of legumes, including nodulation and its evolution, the





phytochemistry, costs and benefits of nitrogen compounds, and the relationships between legumes and their predators.

1994. ISBN 0 947643 77 X Price £12.00

### 6: Structural Botany

Edited by I.K.Ferguson and S.C.Tucker

The papers in this volume deal with the phylogenetic implications of various structural aspects of legumes. Two general papers are followed by several on more specialized topics.

1994. ISBN 0 947643 78 8 Price £15.00

### 7: Phylogeny

Edited by M.D.Crisp and J.J.Doyle

17 papers discuss the phylogeny of both the whole family, and groups of various ranks and sizes within it. Most papers include cladistic analyses of the groups discussed.

1995. ISBN 0 947643 79 6 Price £21.00

### 8: Legumes of Economic Importance, will appear during 1996.

All parts can be ordered from Mail Order Department, Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AB, United Kingdom. Payments in pounds sterling (£) only, please. Credit cards (VISA, Mastercard, AMEX) welcome. Please add 15 per cent to your order to cover postage and packing.

A leaflet with a full listing of papers in each volume can be obtained from Publications Sales, Royal Botanic Gardens, Kew, Richmond, Surrey, TW9 3AE, United Kingdom, or e-mail: [m.lock@rbgkew.org.uk](mailto:m.lock@rbgkew.org.uk).

## *Prosopis* Semi-arid Fuelwood and Forage Tree Building Consensus for the Disenfranchised

A Workshop

13-15 March 1996

2101 Constitution Avenue

U.S. National Academy of Sciences Building  
Washington, D.C.

The nitrogen-fixing genus *Prosopis* has more than 40 species native to North and South America and Asia that range from 1-meter-tall shrubs to 18-meter-tall trees. Hundreds of hectares of *Prosopis* occur naturally in Death Valley, California, the hottest location in the Western Hemisphere. Other *Prosopis* species have become naturalized to harsh semi-arid areas of Haiti, Sahelian Africa, and India. *Prosopis* pods, which are high in sugar (30%) with moderate levels of protein (12%), have been used for human and animal food by indigenous people for millennia. In Mexico, Argentina, and Brazil, *Prosopis* pods are a critically important source of animal feed. In Peru, pods of especially sweet varieties are used for human food. In North America, soils under the canopy of *Prosopis* have 1,000 kg/ha more soil nitrogen and 8,000 kg/ha more soil carbon than soils outside the canopies of the trees. In India, *Prosopis* has been used to reclaim high-pH (10.4) soils. *Prosopis* strains have been found that will grow in salinities equal to ocean water. In Somalia, it has been used for sand-dune control. In many places of Sahelian Africa it is important for fuelwood and forage. In western India and Haiti, *Prosopis* provides more firewood than any other species. While the reddish/brown lumber of *Prosopis* is usually less than 2 meters in length and 0.4 meter in width, it finishes very well, is harder than oak, and more dimensionally stable than all lumber measured to date. Thus, production of flooring, fine furniture and artisanal products is a very active growth industry in the United States and Argentina.

Given the fact that one third of the earth's land surface is semi-arid or arid, when the local experiences with *Prosopis* are aggregated on a worldwide scale, *Prosopis* is a significant worldwide resource. Despite the widespread importance of *Prosopis* for firewood and forage for very poor people of Mexico, Haiti, Sahelian Africa, or India, due to very limited communication between these poor people of arid regions there has been little international awareness of the problem and potential for *Prosopis*. With recently improved genetic strains, soil management techniques, native-stand

management techniques, and marketing efforts, there is great opportunity to rapidly improve the lives of very poor people in some of the world's most harsh ecosystems.

It is the intent of this workshop to stimulate awareness of the worldwide magnitude of the contribution that *Prosopis* has already made and to outline immediate concrete steps to rapidly improve the lives, economies, and the ecosystems of some of the world's poorest people.

### Program

Inaugural Address

Session I: Role in Fertility, Land Stabilization, and Sand Dune Movement

Session II: Role of *Prosopis* in the Gender/Fuelwood/Land Tenure Complex

Session III: Human Food and Forage Uses of *Prosopis* Pods

Session IV: Management of *Prosopis* for Higher Value Products

Session V: Management of Native Stands and Genetic Improvement

Session VI: Country and Regional Case Studies

Panel Synthesis and Wrap-up

The State Plaza Hotel, located a short walk from the National Academy of Sciences Building as well as the White House, the Lincoln Memorial, and the Vietnam Memorial, is the official workshop hotel. A special government rate of \$100/night single or double has been obtained, which is very reasonable for downtown Washington. A block of rooms has been reserved until 13 February 1996. As the peak tourist season is in March, you are requested to obtain a room before the 13th of February by calling 800-424-2859 or FAX 202-659-8601. Mention that you are with the *Prosopis* conference or speak with Ellen Berkowitz.

Updates for the workshop will be provided on the *Prosopis* e-mail network. To subscribe, send e-mail to [listserv@taiu.edu](mailto:listserv@taiu.edu) and type the following message: "Subscribe Prosopis". Then mail the message.

For further information contact: Peter Felker, Nancy Parish, or Becky Trant, Campus Box 218, Center for Semi-Arid Forest Resources, Texas A&M University-Kingsville, Kingsville, Texas 78363, USA, Tel: 512-595-3966/3922, FAX: 512-595-3924, E-mail: [p-felker@taiu.edu](mailto:p-felker@taiu.edu).

### BeanRef

Mario Nenno

'BeanRef' is a collection of references about different aspects of research on beans (*Phaseolus/Vigna*). It contains addresses, short descriptions, and links to electronically available information. It is organized in the following subject areas: Germplasm collections and taxonomy, molecular biology and genetic maps, conferences and organizations, electronic and printed communication, and other references. Since a single person can not read all journals and newsletters, attend all conferences, and spend all their time surfing through the cyperspace of the Internet, the potential users of 'BeanRef' must provide new references. Everybody who has a collection, a data base, runs a conference, or has further information related to beans, please send a few lines with details as complete as possible to Mario Nenno at the address listed below. Also, if the references in 'BeanRef' are no longer valid or addresses have changed, please let him know. The more people contribute to 'BeanRef,' the more it will become a complete reference to research on beans.

'BeanRef' is available to everyone who can use a WWW browser like NCSA Mosaic, Netscape or even Lynx. The URL is:

<http://www.uni-kl.de/FB-Biologie/Beanref/>

'BeanRef' is maintained by Mario Nenno, Abteilung Zellbiologie/ Division of Cell Biology Universität Kaiserslautern/ University of Kaiserslautern, Erwin-Schrödinger-Strasse, D-67653 Kaiserslautern, Germany, Tel.: +49 631 205 2880, Fax: +49 631 205 2998, and E-mail/Internet: [nenno@rhrk.uni-kl.de](mailto:nenno@rhrk.uni-kl.de).



## Margot Forde

1995

Warren Williams and Deric Charlton

Dr. Margot Forde, one of New Zealand's foremost specialists in plant genetic resources, has died in Palmerston North. Margot was a great character with a tremendous sense of humor and a strong curiosity, and these characteristics saw her through her many adventures during long seed collecting trips in strange lands.

Margot had considerable standing as a plant systematist as well as being a leading conserver of grassland germplasm. She was the Curator of the New Zealand Forage Germplasm Centre, AgResearch Grasslands, Palmerston North which, under her leadership, has become an internationally recognized resource for pasture botanists and plant researchers. During the XVII International Grassland Congress the center was renamed the Margot Forde Forage Germplasm Centre (New Zealand) as a permanent tribute to her work. Margot began her career as a botanist and wrote the text for sections of *Flora of New Zealand*, Volume 1, and also prepared the index for the *Flora*. She completed a Ph.D. with G. Ledyard Stebbins at Davis before taking time out to raise her family of three. After a part-time appointment in Botany at Massey University, Palmerston North she began her genetic resources work at Grasslands in 1973. Over the years at Grasslands she travelled far and wide to augment New Zealand's pasture seed collection and, in 1986, participated in Grasslands' first international collecting expedition through several Mediterranean countries.

In collaboration with many plant scientists, she collected and characterized a wide range of pasture species and had a particular affinity for the legumes for which she became an internationally recognized specialist. She also published systematic studies of several grass genera and, with Sue Gardiner, developed the use of seed proteins as a diagnostic tool for genetic resources of outcrossing pasture species.

She made memorable journeys to the Inner Mongolia and Xinjiang Uighur Autonomous Regions of China and had many science exchanges with Chinese botanic groups and organizations. She also travelled through the republics of the Caucasus region in 1989 and contributed as legume specialist to an IPGRI-sponsored international expedition. Such ventures extended further the seed collection at Grasslands which now contains more than 70,000 entries held under medium and long-term storage conditions.

She was serious in her work, and enthusiastic and sincere towards the people with whom she worked. Her humor was one of her endearing characteristics, and she created a deep impression with her colleagues in many countries. The Margot Forde Forage Germplasm Centre recently joined the Australasian Network of Plant Genetic Resource Centres and is now the official gene bank for perennial temperate grassland plants for Australia and New Zealand - a further tribute to the work and memory of Margot Forde.

## The Rupert Barneby Award

Enrique Forero

The New York Botanical Garden is pleased to announce that Ing. Nelson Zamora of the Instituto Nacional de Biodiversidad (INBio), Costa Rica, is the recipient of the *1994 Rupert Barneby Award*. Ing. Zamora will be working on several groups of mimosoid and caesalpinoid legumes for Costa Rica.

The New York Botanical Garden invites applications for the *1995 Rupert Barneby Award*. The award of \$1,000.00 is to assist researchers planning to come to The New York Botanical Garden to study the rich collection of Leguminosae. Anyone interested in applying for the award should submit their curriculum vitae, a letter describing the project for which the award is sought, and how the collection at NYBG will benefit their research. Travel to NYBG should be planned between January 1, 1996 and January 31, 1997. The letter should be addressed to Dr. Enrique Forero, Director, Institute of Systematic Botany, The New York Botanical Garden, Bronx, NY 10458-5126 USA, and received no later than December 1, 1995. Announcement of the recipient will be made by December 15<sup>th</sup>. Anyone interested in making a contribution to *The Rupert Barneby Fund in Legume Systematics*, which supports this award, may send their check, payable to The New York Botanical Garden, to Dr. Forero.

## **Domestication, Production & Utilization of New Crops: Practical Approaches**

**8-10 July 1996  
University of Southampton  
United Kingdom**

Nazmul Haq

Recent years have seen rapidly growing interest in developing novel crops and new uses for existing or under-utilized crops. The concern among scientists, agriculturalists, and industrialists in the developed world is driven by the need both to find viable uses for land no longer needed for food production and to find alternative renewable sources of raw materials. In less-developed countries, accelerating population growth and the need for sustainable development make it necessary constantly to raise productivity and improve nutrition through diversification of crops and better exploitation of under-utilized plants.

The International Centre for Underutilised Crops (ICUC) has previously organized two international symposia - in 1987 on "New Crops for Food and Industry" and in 1991 on "New Crops for Europe." The objective of this 3rd international meeting is to highlight obstacles in the process of new crop development and determine, from practical experience, how to overcome them. The aim will be to extract general principles, and thus provide a practical basis to aid future work.

### **Program**

Sunday 7 July 1996

Registration and evening reception

Monday 8 July 1996

1st session: "Why do we need 'new' crops?"

2nd session: "Sources of new crops"

Tuesday 9 July 1996

3rd session: "Mechanics of crop development"

4th session: "Utilization and marketing"

Wednesday 12 July 1996

5th session: "Conclusions"

The cost of registration will be £110 (including conference proceedings) with a reduced rate of £55 for students (not including conference proceedings). Bed and breakfast accommodation in University Halls of Residence will be available at the University between 7 and 10 July at a cost of about £20 a night.

The Society for Economic Botany and the International Society for Ethnopharmacology are holding a 5-day conference in London on *Plants and Food and Medicine* on 1-6 July 1996. Request further information on this conference or the preceding one from: Dr. N. Haq, Conference Secretariat, International Centre for Underutilised Crops, Building 62, University of Southampton, Southampton SO16 7PX, United Kingdom, Tel: +44 (0) 1703 594229, FAX: +44 (0) 1703 594269, E-mail: [haq@soton.ac.uk](mailto:haq@soton.ac.uk).



## Nodulation and Nitrogen Fixation

Legume Nodulation Reports not in Allen and Allen (1981)

Taxon	Status <sup>1</sup>	Nodule <sup>2</sup> Shape	Source <sup>3</sup>
<i>Astragalus chlorostachys</i> Lindley	+		1
<i>Astragalus leucocephalus</i> Grah. ex Benth.	+		1
<i>Astragalus subumbellatus</i> Klotzsch	+		1
<i>Campylotropis meebildii</i> (Schindler) Schindler	+		1
<i>Indigofera heterantha</i> Wall. ex Brandis var. <i>gerardiana</i> (Wall. ex Baker) Ali	+		1
<i>Lespedeza floribunda</i> Bunge	+		1
<i>Lespedeza juncea</i> (L.f.) Pers. var. <i>variegata</i> (Camb.) Ali	+		1

<sup>1</sup>Status: +, root nodules reported as present; -, root nodules reported as absent.

<sup>2</sup>Nodule shape: Ae, aeschynomeneoid; As, astragaloid (now referred to as caesalpinoid by Corby); Cr, crotalaroid; CrB, branched crotalaroid; CrS, simple crotalaroid; De, desmodioid; Gl, globose; Lu, lupinoid; Mu, mucunoid.

<sup>3</sup>Source:

1. Nasim, M., and S.D. Ahmed. 1993. A qualitative study of nodulating ability of legumes of Azad Kashmir. (List-2). Sarhad J. Agri. 9(5): 429-433.

## GLEANINGS

AMELA GARCIA is preparing a manuscript on the floral biology of *Prosopis alba* and is conducting laboratory studies on the floral biology of native species of *Phaseolus* and *Macroptilium fraterum*.

BARRETO is beginning a study of tribe Desmodieae for the "Flora of the Cuban Republic."

BASTOS (New Reader) is working on *Vicia* in Brazil.

BENNETT is beginning to study the naturalization of *Trifolium glomeratum* in Western Australia. A field-based population study of between and within variation will be followed up with RAPID's of material from a number of sites. She offers information on previous RAPID or PCR work on *T. glomeratum* or other small-seeded *Trifolium*.

BEYRA-MATOS is continuing to work on tribe Aeschynomeneae for the *Flora de Cuba*. She has completed taxonomic treatments for *Aeschynomene*, *Belairia*, *Pictetia*, *Stylosanthes* and *Zornia*, and is now doing *Arachis* and *Poiretia*. She is also studying the anatomy and foliar architecture of the Cuban members of Aeschynomeneae. She offers fresh material and herbarium specimens of Cuban Fabaceae.

BRENNER offers seeds of *Coronilla*, *Dalea*, *Galega*, and *Melilotus* from the National Plant Germplasm System (NPGS) of the United States of America.

Buzeta, Andres, (Departamento Agroindustrial, Fundación Chile, tel: 56-2-218-5211, FAX: 5-2-218-6720, e-mail: [abuzeta@fundch.cl](mailto:abuzeta@fundch.cl)) wants to obtain seeds of *Aspalathus linearis* for field trials in Chile.

CHEN is preparing the Papilionaceae for the "Flora of Yunnan," and needs information on *Phaseolus* and *Vigna* in Asia, including southeast Asia.

CHOI is working on the molecular systematics of *Hedysarum* and *Indigofera kirilowii* and studying the inter- and infrageneric systems of *Hedysarum*.

COMBES needs viable seeds of *Lathyrus grandiflorus*. Everything that he has received so far, even from botanical gardens, labelled as *L. grandiflorus* has turned out to be *L. latifolius* (perennial pea).

CORNELL works on bean market statistics.

CUBERO is working on the taxonomy and evolution of *Cicer* and *Vicia*. He needs wild American *Vicia* species, and offers *Cicer*, *Lupinus*, and *Vicia*.

D'EÇA (New Reader) is working on the floristics and ecology of Fabaceae on the Morro São Maximiano, Guaíba, Rio Grande do Sul, Brazil.

DUBOIS (New Reader) is beginning a systematic and ecological study of key *Bauhinia* species. He will be using DNA and enzymatic techniques supported by morphological and ecological data. He needs viable, mature seeds of *Bauhinia*.

ESPINOSA-HERNANDEZ is working on the possible mechanism of phosphorus acquisition by *Lupinus arboreus*, *Medicago sativa*, *Stylosanthes hamata*, and *Trifolium subterraneum*. He needs *Rhizobium* of *Lupinus* and *Melilotus* and *Rhizobium* strain CB756, and offers information about the tolerance to aluminum and observations of changes in the pH of the rooting medium induced by phosphorus deficient legumes (*L. arboreus*, *M. sativa*, and *S. hamata*).

GUPTA is working on the cytogenetics of lentil and other pulse crops.

HERENDEEN reports that his correct e-mail address is [herenden@fnnh.org](mailto:herenden@fnnh.org). Please note that the computer staff altered his name by changing the double occurrence of the letter 'e' to a single occurrence of the letter 'e'.

HOC is continuing laboratory work with AMELA GARCIA and PALACIOS on the floral biology of native *Phaseolus* species and *Prosopis* for *Flora del Paraguay*.

HUGHES is continuing to work on *Leucaena* systematics, and offers seeds of Central American woody Fabaceae.

JOHNSON, C.D., needs bruchid beetles feeding in seeds of *Cassia* and other tropical Fabaceae.

KRAMINA is investigating the chromosome numbers of the *Lotus corniculatus* group. She offers seeds of *Lotus corniculatus* and related species, and needs seeds and herbarium specimens of *Lotus* species from European Russia.

LABAT needs material of Malagasy Papilionoideae, and offers to identify the same.

LADIPO is working on the *Sesbania* species of Nigeria and evaluating their agroforestry potentials. He needs information on *Calliandra portoricensis* (= *Zapoteca portoricensis*), including a seed supply (research quantity only), and literature on the growth of *Enterolobium cyclocarpum* at various sites in the tropics, and offers West African legume seeds.

LARSEN, K., is working on Caesalpiniaceae and Fabaceae of continental southeast Asia.

MAXTED is working on a Geographical Information System (GIS) for and the conservation and taxonomy of *Vicia* and *Vigna* species.

MIKOLAS has started a study on *Onobrychis montana*.

NEUBERT (New Reader) is working on *Lathyrus* in Brazil.

PLITMANN is studying the systematic relationships in the *Lathyrus annuus* group. He needs material of *Pisum formosum* (= *Vavilovia formosa*), and offers various Viciae species.



POKLE is studying the chemotaxonomy of *Alysicarpus*. He needs literature on *Alysicarpus*, especially its seed morphology, floral biology, nutritional values, and cultivation practices from Africa, Australia, and America, and offers dried specimens and seeds of legumes occurring in the Indian region where he is located.

RAINA needs material of *Vicia* and *Vigna*.

RODRIGUEZ (New Reader) is studying the interactions between *Lysiloma bahamensis* and herbivorous insects in Everglades National Park in Florida, USA.

SILVA is working on Fabaceae of the Brazilian Amazon. She has six manuscripts in press: "Capacidade de nodulação de 100 leguminosas de Amazônia" with MOREIRA; "Associação rhisobio - Leguminosas da Amazônia - I e II" with MOREIRA; "Leguminosas da Amazônia brasileira - IV, *Heterostemon* Desf. (Leg. Caesalp.)" with CAREIRA; "Tratamentos escarificadores de sementes duras em sete leguminosas nativas da estação ecológica de Maracá - Roraima - Brasil" with L.A.F. Souza; "Leguminosas da Amazônia brasileira - *Jacqueshuberia* Kuhlmann (Leg. Caesalp.)" with CAREIRA; and, "Catálogo de polens das leguminosas da Amazônia brasileira" with CAREIRA. She needs references, herbarium specimens, and seeds of Fabaceae, and offers Fabaceae seeds.

SOKOLOFF has finished his Master's thesis, "Morphology and taxonomic revision of *Anthyllis* L. (Papilionaceae - Loteae) and related taxa." He needs seeds, fruits, and/or herbarium specimens of Loteae, especially *Antopetita*, *Anthyllis agaea*, *A. henoniana* ssp. *valentina*, *A. plumosa*, *Lyauteya* (= *Cytisopsis*) *ahmedii*, and *Pseudolotus* and literature on the taxonomy, morphology, and phytogeography of Loteae. He offers copies of his publications and herbarium specimens of vascular plants from the Murmansk region and Kerala, Russia, and of *Anthyllis* from Russia.

SOUZA (New Reader) is working on the nodulation capacity, strains selection, and nitrogen fixation of native legumes from the Amazon. He needs rhizobia and information on nodulation occurrence and legume taxonomy, and offers legume seeds and botanical material and publications on research in the Amazon.

STEINER needs *Lotus corniculatus* or other forage legume seeds from the southwestern coastal region of the Republic of Georgia, particularly from the lowland region, and any *Lotus* from southeastern China.

SUN (New Reader) is working on the Fabaceae for "Flora of Yunnan" and from the eastern Himalayas (southeastern Tibet). He offers herbarium specimens, seeds, and material for DNA work, anatomy, etc., of Fabaceae or other groups. He can also help to arrange and to collaborate in plant collection in Yunnan and nearby regions.

SURESH reports the observation on 10 Apr 1995 of fasciated stems in *Derris trifoliata* near sea level at Cherai, Ernakulam district, Kerala, India. The fasciated stems have longitudinal striations and scattered spine-like protuberances.

THOTHATHRI has started working on a "Survey of less known legumes of south India" with financial support from the Ministry of Environment and Forests, New Delhi. As part of the survey, he has been collecting Fabaceae in Anamalai, Niligris and Yercaud, Salem of Tamil Nadu, India. He needs reprints of tribal use of Fabaceae seeds, fruits, and other plant parts, and offers taxonomic, systematic, and revisionary reprints on Asiatic or Indian Fabaceae.

TUCKER is continuing her work on the floral development of Amherstieae/Detarieae and Cercideae.

ULIBARRI is working on Caesalpinioideae and South American *Adesmia*, *Caesalpinia*, and *Hoffmannseggia*.

VAIDYA (New Reader) is conducting research on the seed morphology of Fabaceae.

VIDAL is revising Dalbergieae and Millettieae for the *Flore du Cambodge, du Laos et du Viêtnam*, volume 29. Several other authors are also contributing. There are 12 genera and approximately 100 species. The manuscript is almost finished, and should be ready for publication in June 1996.

VIJAYALAKSHMI is working on crop improvement and utilization of winged bean and recycling and reuse of raw coir pith to promote growth of legumes and mulberry.

WILLIAMS, W.M., is now Curator of the Australian Genebank for Temperate Pasture Species, and offers material of temperate pasture legume species.

## RECENT LEGUME LITERATURE

Eds. Note: Author names in all capital letters are BB Readers. Their full names and addresses are listed in November 1992 BB Directory and supplements. Correspondence about their articles should be sent directly to them. Abbreviations for serial publications follow Botanico-Periodicum-Huntianum/Supplementum (Hunt Institute for Botanical Documentation, 1991).

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